

Homework 5
Due Wednesday 7 May 7:00 pm to hws submit

The first three problems are from the text. Elmasri & Natathe, Fundamentals of Database Systems, 5th edition.

1. Exercise 10.17 page 372-73 .
Only design the DB schema and specify the FDs.
Do *not* decompose your schema into 3NF or BCNF.
2. Exercise 10.28 page 374.
3. Exercise 10.29 page 374.
4. Using the Hospital database, obtain the patient name and address, and name of the patient's PCP, of patients that have had at least one appointment and has undergone procedures such that all of those procedures each have a cost less than \$7,000. Write this query in:
 - (a) Relational algebra
 - (b) Tuple calculus
 - (c) Domain calculus
 - (d) SQL

The result of this query should be:

Name	Address	Name
John Smith	42 Foobar Lane	John Dorian